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TITLE: FORMATION OF ALLOY LAYER

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ABSTRACT:

PURPOSE: To form a coating layer of metal or alloy on the surface of iron and steel material by applying a specific organic polymer compound prepared by mixing powder of metal or alloy onto the surface of iron and steel material and then by carrying out heating.

CONSTITUTION: Pulverulent Zn, Sn, Ni, Al, Ti, or Cr with ≤ 0.5 mm grain size or an alloy each mainly composed of these metals is made into a paint-like state together with an organic polymer compound and a solvent, which is applied to the surface of the iron and steel material and is then subjected to heating at $\geq 1,200^{\circ}\text{C}$. As the organic polymer compound used here, resin which dissipates at heating by thermal decomposition and protects the iron and steel material and the above metals from oxidation by means of the gas produced by decomposition is used, so that a layer of the above metal such as Zn or the like or alloy is formed on the surface of the iron and steel material; the organic polymer compound is a mixture of 1 or ≥ 2 kinds among polymers containing acrylic acid or the like, polymers having urethane bonds, urea resins, melamine resins and other resins.

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